LAUNCH

What is a mathematical model?

What is the relationship of the meaning of “model” in mathematics with meanings in other areas?

What can you do with mathematical models?

Who uses mathematical models?

I will then probe into their knowledge of the mathematical models that are used in building bridges.

How do engineers find out whether the materials they use are strong enough?

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POSE the Challenge: Explore these relationships using tables, graphs, and symbolic rules.

Set expectations: They need to be ready to discuss their findings using these three forms of mathematical representation when we get back together to discuss things as a whole group. They should also expect to explain more about what you can do with a mathematical model.